



OAQ Process Information Application
PI-16: REINFORCED PLASTICS AND COMPOSITES

State Form 52557 (2-06)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
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www.IN.gov/idem/air/permits/index.html

NOTES:

- The purpose of this form is to obtain detailed information about the process. Complete one form for each process unit (or group of identical process units). This is required form.
- Detailed **instructions** for this form are available online at www.in.gov/idem/air/permits/apps/instructions/pi16instructions.html.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

PART A: Process Information

Part A identifies the process. If there are multiple process units that are identical in nature, capacity, and use, you may use one form to summarize the data for the identical process units.

1. Unit ID:

2. Installation Date:
(actual or anticipated)

3. How many (identical) process units are identified in this form?

☐ One

☐ More than one (specify number) : _____

4. Method of Operation:

☐ Open Molding

☐ Closed Molding

☐ Continuous Lamination

☐ Pultrusion

☐ Marble Casting

5. Method of Application:

☐ Manual

☐ Manual w/ Vapor Suppressed Resin VSR

☐ Mechanical Atomized

☐ Mechanical Atomized with VSR

☐ Mechanical Atomized Controlled Spray

☐ Mechanical Controlled Spray with VSR

☐ Mechanical Non-Atomized

☐ Mechanical Non-Atomized with VSR

☐ Filament application

☐ Filament application with VSR

☐ Gelcoat Application

☐ Gelcoat Controlled Spray Application

☐ Gelcoat Non-Atomized Application

☐ Covered-Cure after Roll-Out

☐ Covered-Cure without Roll-Out

6. Maximum Production Rate:

parts per hour

This space is intentionally left blank.

PART B: Resin and Gel Coat Data

Part B identifies data on the Resins and Gel Coats necessary to calculate emissions. Provide an MSDS for each materials used in the process. Use additional forms as necessary.

7. Material Name	8. Emission Factors <i>(specify value and units of measure)</i>			9. Weight % Monomer	10. Density <i>(lb/gal)</i>	11. Usage <i>(gal/part)</i>	12. Transfer Efficiency (%)
	VOC	Styrene	Methyl Methacrylate				
RESINS							
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
GELCOATS							
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				
	<input type="checkbox"/> AP42 <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other	<input type="checkbox"/> AP42 <input type="checkbox"/> UEF <input type="checkbox"/> Other				

PART C: Solvent Data

Part C provides data about the release agents, clean-up solvents and degreasers used in this process. Provide an MSDS for each materials used in the process. Use additional forms as necessary.

13. Material Identification:				
14. Batch Identification:				
15. Manufacturer:				
16. Usage (gal/part)				
17. Material Density (lbs/gal) (D _C)				
18. Weight % Total Volatiles (water and organics) (W _V)				
19. Weight % Water (W _W)				
20. Weight % Solids (W _N)				
21. Weight % VOC (W _O)				
22. Volume % Total Volatiles (water and organics) (V _V)				
23. Volume % Water (V _W)				
24. Volume % Solids (V _N)				
25. Volume % VOC (V _O)				
26. VOC Content, less water (lbs/gal) (VOC)				
27. VOC Emission Factor	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other
28. Single HAP Emission Factor (specify):	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other
29. Other Pollutant Emission Factor (specify):	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other	_____ <input type="checkbox"/> AP-42 <input type="checkbox"/> Other

This space is intentionally left blank.

PART D: Control Technology

Part D identifies the methods used to control emissions from this process.

30. Add-On Control Technology: *Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").*

- | | |
|--|---|
| <input type="checkbox"/> None | <input type="checkbox"/> Cyclone – <i>Attach CE-03.</i> |
| <input type="checkbox"/> Baghouse / Fabric Filter – <i>Attach CE-02.</i> | <input type="checkbox"/> Absorption / Wet Collector / Scrubber – <i>Attach CE-05.</i> |
| <input type="checkbox"/> Electrostatic Precipitator – <i>Attach CE-04.</i> | <input type="checkbox"/> Adsorber – <i>Attach CE-07.</i> |
| <input type="checkbox"/> Oxidizer / Incinerator – <i>Attach CE-06.</i> | <input type="checkbox"/> Reduction – <i>Attach CE-09.</i> |
| <input type="checkbox"/> Condenser – <i>Attach CE-08.</i> | <input type="checkbox"/> Waterwash – <i>Attach CE-10.</i> |
| <input type="checkbox"/> Dry Filters – <i>Attach CE-10.</i> | <input type="checkbox"/> Other (<i>specify</i>): – <i>Attach CE-10.</i> |

31. Control Techniques: *Identify all control techniques used for this process.*

32. Process Limitations / Additional Information: *Identify any acceptable process limitations. Attach additional information if necessary.*

PART E: Federal Rule Applicability

Part E identifies any federal rules that apply to the process.

33. Is a New Source Performance Standard (NSPS) applicable to this source?

Attach a completed FED-01 for each rule that applies.

☐ Yes ☐ No

☐ 40 CFR Part 60, Subpart _____ (*Specify*):

34. Is a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to this source?

Attach a completed FED-01 for each rule that applies.

☐ Yes ☐ No

☐ 40 CFR Part 63, Subpart VVVV Boat Manufacturing

☐ 40 CFR Part 63, Subpart WWWW Reinforced Plastic Composites Production

☐ 40 CFR Part 63, Subpart _____ (*Specify*):

35. Non-Applicability Determination: Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.